DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

P40EA Revision 12 Hartzell HC-B4T December 19, 2006

TYPE CERTIFICATE DATA SHEET NO. P40EA

Propellers of models described herein conforming with this data sheet (which is part of Type Certificate No. P40EA) and other approved data on file with the Federal Aviation Administration meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Federal Aviation Regulations provided they are installed, operated and maintained as prescribed by the approved manufacturer's manuals and other approved instructions.

Type Certificate Holder Hartzell Propeller Inc.

Piqua, OH 45356

Type Constant speed; hydraulic (see Notes 3 and 4)

Engine shaft Special flange: (see Note 1)

Hub material Alloy Steel
Blade material Aluminum Alloy

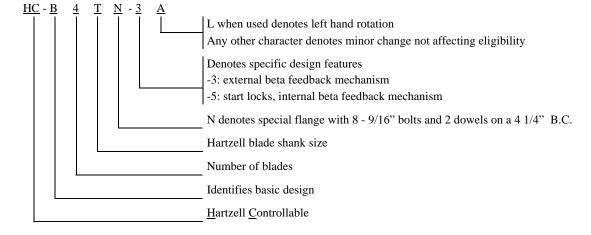
Number of blades Four

Hub models HC-B4TN-3, HC-B4TN-5 (see Notes 1 and 4)

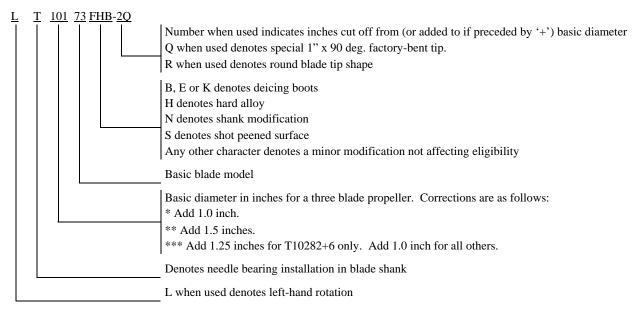
	Max	imum			Diameter	Approx. Max. Wt. Complete	
Blades	Conti	nuous	Tak	ceoff	Limits	(For Reference Only)	
(see Note 2)	HP	RPM	HP	RPM	(see Note 2)	(see Notes 3 and 7)	
T9212-0 to T9212-10	850	2000	850	2000	93" to 83" (-0 to -10)*	158 lb.	
T9216-0 to T9216-10	850	2000	850	2000	93" to 83" (-0 to -10)*	158 lb.	
T10574-0 to T10574-16	950	1620	950	1620	106" to 90" (-0 to -16)*	165 lb.	
T10574A-0 to T10574A-16	950	1620	950	1620	106" to 90" (-0 to -16)*	168 lb.	
T10576-0 to T10576-16	950	1591	950	1591	106" to 90" (-0 to -16)*	170 lb.	
T10173+1 to T10173-21	900	2200	900	2200	103.5" to 81.5" (+1 to -21)**	155 lb.	
T10173AN-12.5 to T10173AN-21	750	2200	900	2200	90" to 81.5" (-12.5 to -21)**	157 lb.	
T10173F-12.5 to T10173F-21	750	2200	950	2200	90" to 81.5" (-12.5 to -21)**	153 lb.	
T10176+1 to T10176-21	900	2200	900	2200	103.5" to 81.5" (+1 to -21)**	155 lb.	
T10178-0 to T10178-21	950	2200	950	2200	102.5" to 81.5" (-0 to -21)**	165 lb.	
T10282-0 to T10282-22	950	2200	950	2200	103" to 81" (-0 to -22)*	165 lb.	

Blades	Maximum Continuous		Takeoff		Diameter Limits	Approx. Max. Wt. Complete (For Reference Only)			
(see Note 2)	HP	RPM	HP	RPM	(see Note 2)	(see Notes 3 and 7)			
T10282+6	950	1591	950	1591	109.25" to 103"	166 lb.			
to T10282-0	or		or		(+6 to -0)***				
	800	2000	800	2000					
T10890N-0	950	1591	950	1591	109.5" to 103.5"	186 lb.			
to T10890N-6					(-0 to -6)**				
	The following models were included under the original certification basis: HC-B4TN-3, HC-B4TN-5 The following models were added, updated or revised in accordance with 14 CFR Part 35 wit amendments 35-1 through 35-5 effective October 14, 1980: HC-B4TN-3, HC-B4TN-5								
	Production Basis:	Production Certificate no. 10							

Note 1: <u>Hub Model Designation</u> (See Notes 4 and 5)



Note 2: <u>Blade Model Designation</u> (See Notes 5 and 6)



Note 3: Pitch Control (weight of pitch control extra) (See Notes 4 and 10)

- (a) All models have counterweighted blades and use governor oil to decrease pitch.
- (b) All governors and propeller control systems must be approved as part of the aircraft installation regardless of manufacturer.
- (c) Maximum control pressure for all models: 500 psig

Note 4: Feathering

(a) The -3 and -5 models incorporate feathering and unfeathering features.

Reversing

(a) The -3 and -5 models are approved for installation as reversing propellers with reversing controls.

Note 5: Left-Hand Models (See Notes 1 and 2)

The left-hand version of an approved propeller model is approved at the same rating and diameter as listed for the right-hand model.

Note 6: Interchangeability (See Note 2)

- (a) Hard and soft alloy blades of the same model designation are interchangeable.
- (b) Blades with the suffix "N" in the basic model number may replace those without an "N" either individually or as a set. Likewise, blades with the suffix "S" in the basic model number may replace those without an "S" either individually or as a set. When the aircraft Type Certificate or Supplemental Type Certificate specifies blades with the letters "N" or "S" in the basic model number, those characters must be retained in all replacement blade models.

For example: Blades with neither "N" nor "S" may be replaced by "N", "S" or "NS" blades, "N" blades may be replaced by "NS" blades, "S" blades may be replaced by "NS" blades.

(c) Refer to Hartzell Service Letter HC-SL-30-260 for ice protection system component interchangeability.

Note 7: Accessories

- (a) Propeller spinner (weight of spinner extra)
 - (1) Approved with Hartzell and other manufacturers' spinners when listed on Hartzell type design data.
- (b) Propeller deice (weight of deice system extra)
 - (1) Approved with Goodrich electrical deicing kit 5EXXXX-X, 7EXXXX-X, 77-XXX, 67-XXX or 65-XXX when the specific kit number is listed on Hartzell type design data and installed in accordance with Goodrich report no. ATA 30-60-07, Goodrich drawing no. 7E-1284 or Beech installation drawing no. 50T-389045.
 - (2) Approved with ice protection equipment when listed on Hartzell type design data.

Note 8: Shank Fairings Not applicable.

Note 9: Special Limits Not applicable.

Note 10: The propeller installation must be approved as part of the aircraft type certificate to demonstrate compliance with the applicable aircraft airworthiness standards.

Propeller models listed herein consist of basic hub and blade models. Most propeller models include additional characters to denote minor changes and specific features as explained in Notes 1 and 2. Refer to the aircraft Type Certificate Data Sheet for the specific propeller model applicable to the installation.

Note 11: Retirement Time

(a) Life limits and mandatory inspections. Airworthiness limitations, if any, are specified in Hartzell Maintenance Manual 118() or Service Letter 61().

Note 12: Special Notes

- (a) Refer to Hartzell Manual no. 202() for overspeed and overtorque limits.
- (b) Refer to Hartzell Service Letter HC-SL-61-61() for overhaul periods.

END